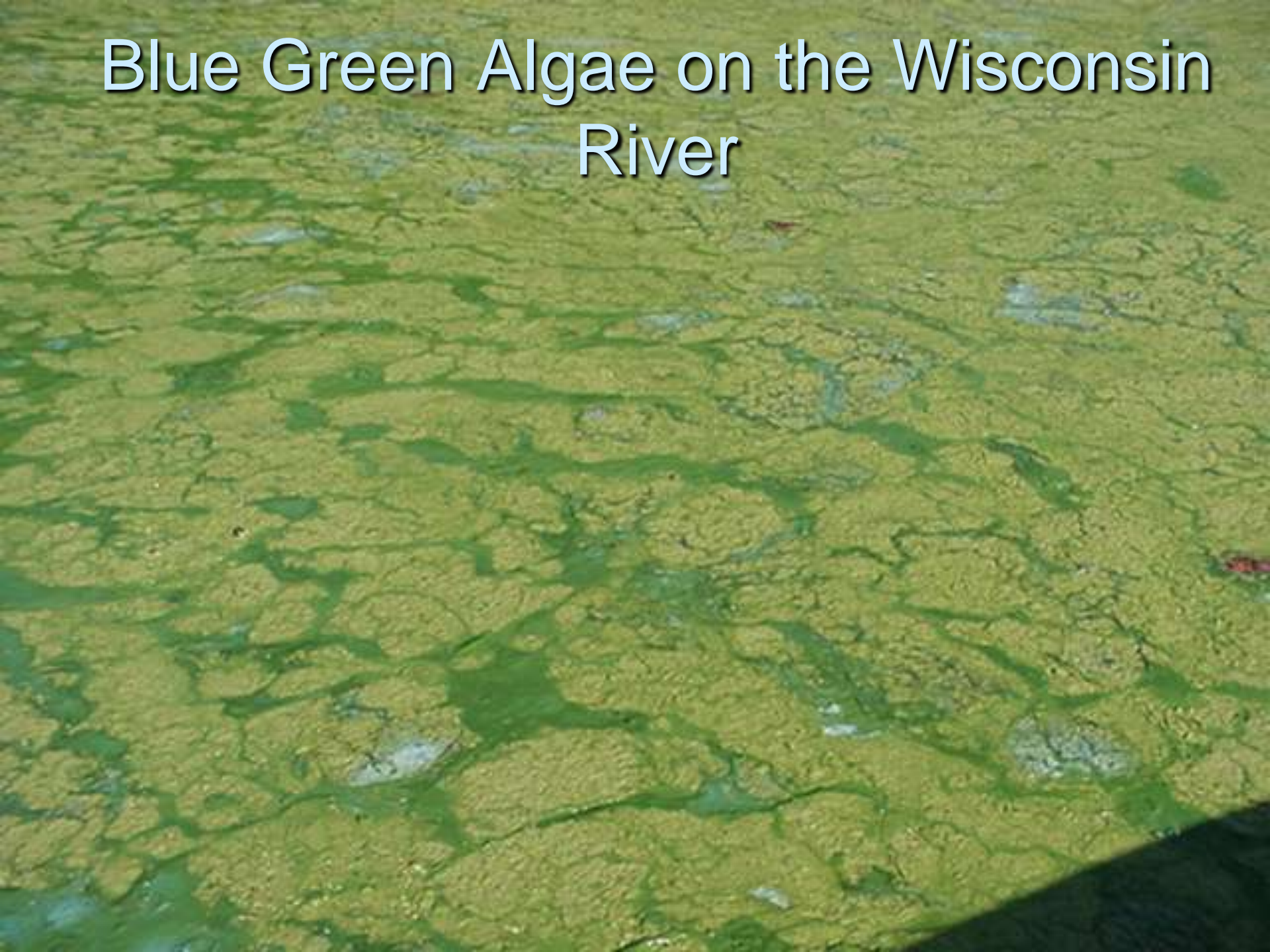


Blue Green Algae on the Wisconsin River



What are blue-green algae?

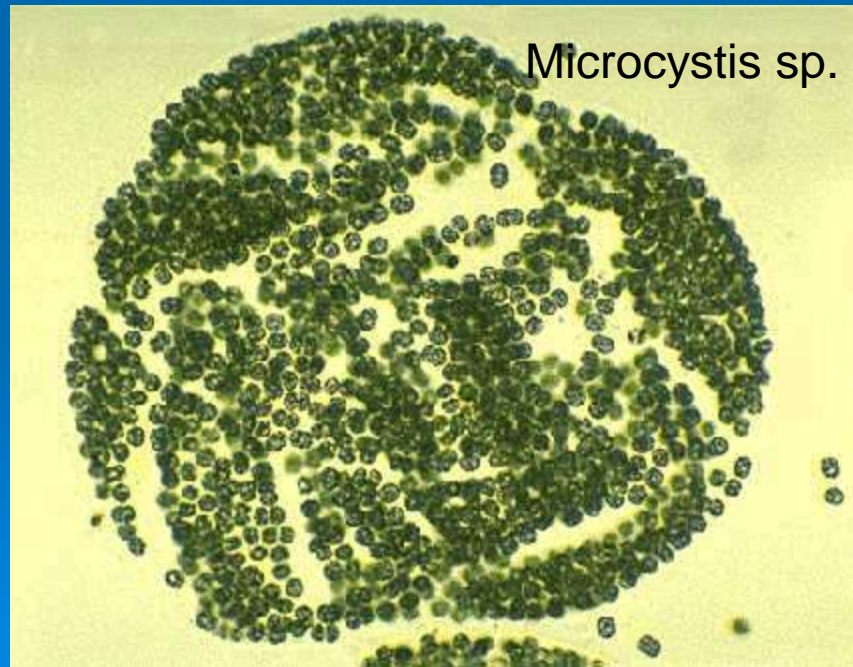
- Cyanobacteria that can photosynthesize
- Need nutrients (P and N)
- Naturally-occurring in lakes and ponds
- Been on the Earth for millions of years
- Can form obnoxious mats and/or scum
- Some can release toxic substances



The common BGA that can be harmful...

The “Big Three”, or AKA, Annie, Fannie and Mike.

But there are others!



Why on the Wisconsin River?

Huge drainage area – 20% of the state!

Natural nutrient rich water

Increased nutrients with settlement

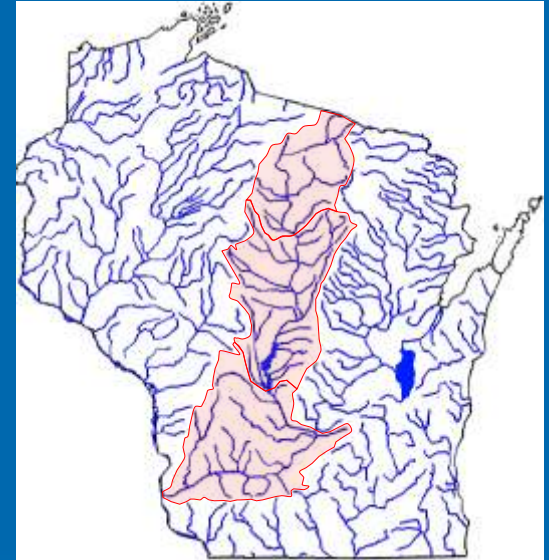
Creation of the reservoir systems

Developed shorelines

More recreational contacts

Emerging health implications

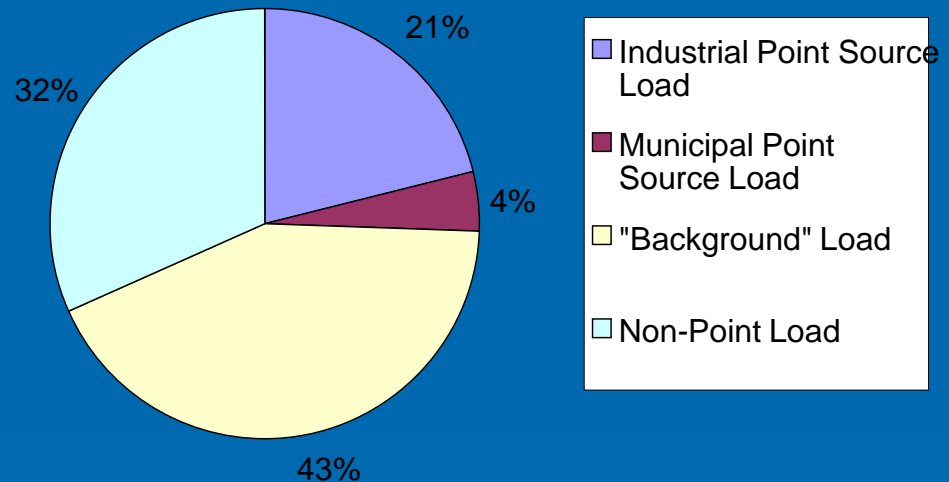
Socio-economic impacts



Nutrients are the driving force

- Huge watershed and nutrient load
- Point sources 25%, NPS 32% the balance is from the watershed and lake
- Just to reduce the number of blooms, P imports would have to be cut by half

2002 Petenwell
Phosphorous Loading

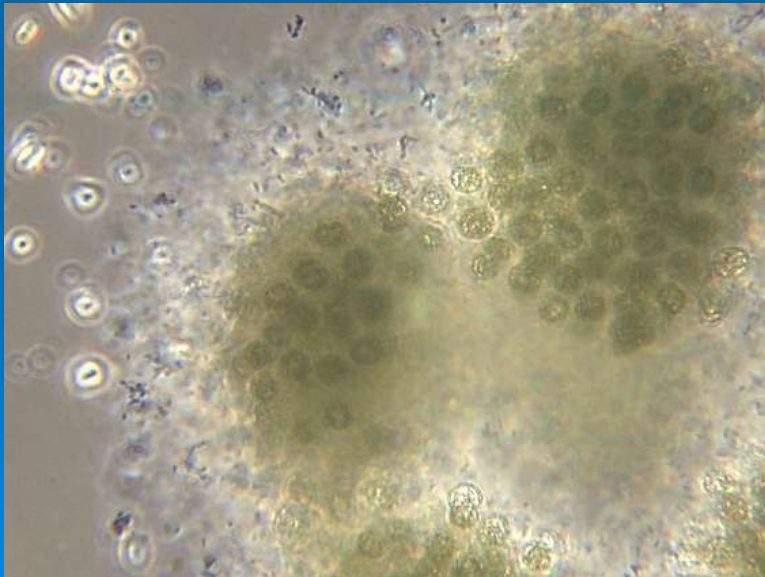


When do blooms occur?



Glad you asked!

- Virtually everywhere and opportunistic
- Responds positively to sunlight, temp, nutrients (P & N), quiescent waters



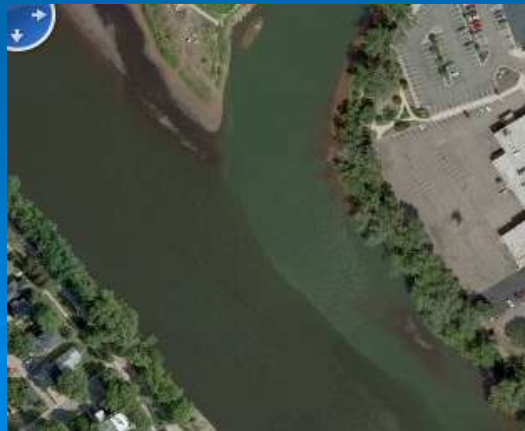
And...

- Usually mid June through early September
- Usually a lack of plants, but not always



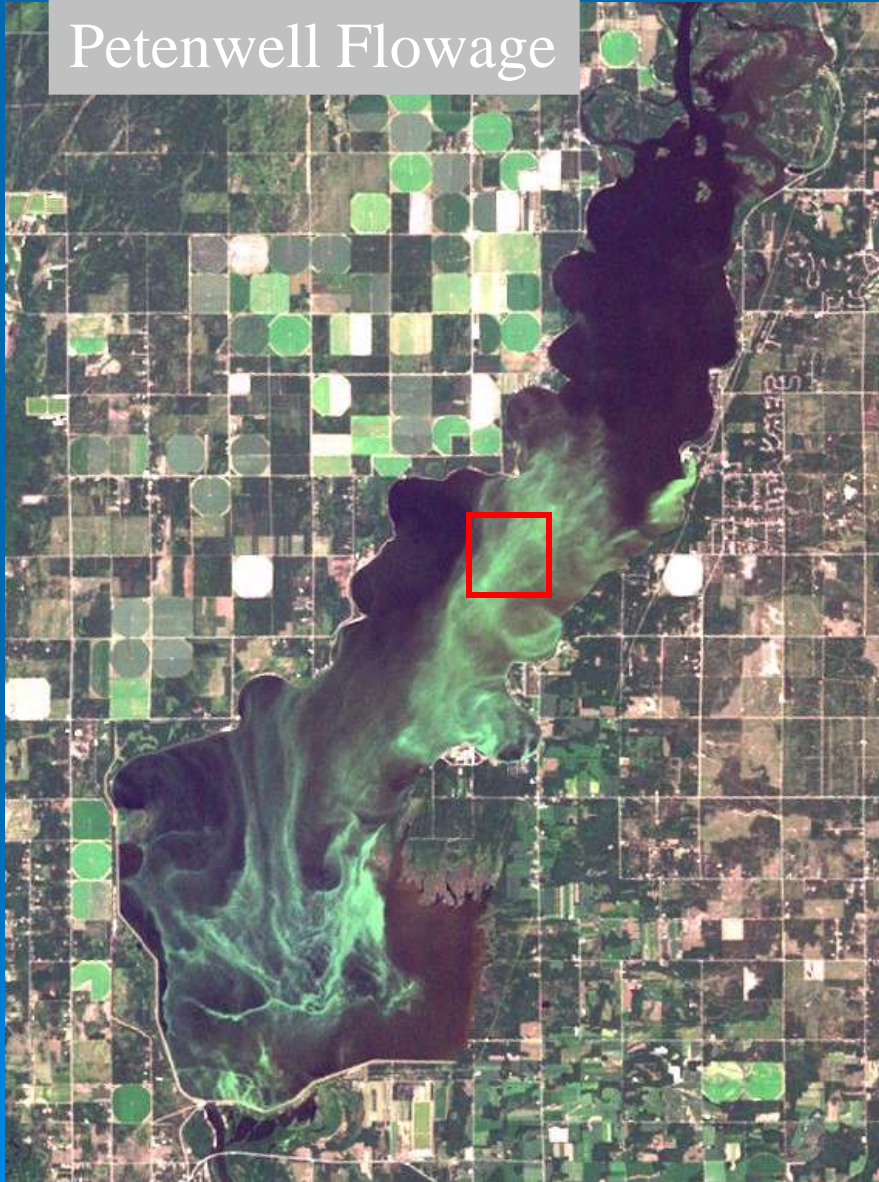
Where does BGA occur?

- Wind can easily concentrate it on downwind shores.
- Can be very dense at shore
(coincidentally where kids and dogs usually play)



BGA Blooms can also be massive

Petenwell Flowage



Castle Rock Flowage

